

### Broken Hill Solar Plant

Community Information Session 11 November 2015

#### Agenda

4

- Welcome November CIS
  - Overview of project status AGL
  - Local spending / employment
- Project planning / community update
  - Next meeting





> AGL Broken Hill Solar Plant

# 2. Review actions from previous meeting

	Action item	CIS meeting	Status	Who
1	AGL contact Broken Hill PROBUS group re: solar plant site visit	September 2015	Closed	НО
2	AGL to provide a comparison of generation between solar power and wind energy	September 2015	Open	AM
3	AGL to organise community solar plant tour	September 2015	Open	НО



# Overview of project status

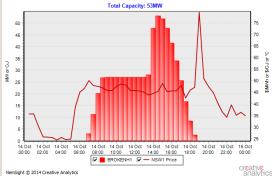
Adam Mackett (AGL)



**Solar Plant** 

- > The changing face of the Broken Hill Solar Plant
  - » Top: January 2015 (civil work)
  - » Middle: September 2015 (prior to final module)
  - » Bottom: October 2015 (full generation ~53 MW)
- > Final module (total 677,760) was installed on Monday, 12 October 2105.
- > Construction of the solar plant is complete  $\rightarrow$  project is transitioning into operations.
- First generation commenced from 15 September 2015 and full generation was achieved on 14 October 2015.
- AGL is working with Australian Energy Market Operator (AEMO) and TransGrid to progress final commissioning (R2 testing).
- Project remains on track to be fully operational by December 2015.







#### **Connection Works (CPP)**

- 2 x 22kV transmission line was practically complete at the end of February 2015, including crossing of the ARTC rail.
- Operating protocol with TransGrid (Network Services Provider) has been finalised and executed.
- > Feeder No.2 was energised on 1 July 2015.
- Feeder No.1 was successfully energised on Wednesday, 2 September 2015.





> Broken Hill Solar Plant

**Project Milestone – final module installation event stakeholders:** 

- > Broken Hill City Council, Christine Adams and other Council representatives
- State Government, Minister Anthony Roberts and Minister Mark Speakman, Minister Sussan Ley representative
- > Australian Renewable Energy Agency (ARENA) executives
- > AGL executives
- > Media representatives
- > Broken milestone went to number one on Facebook for the day!





 Broken Hill Solar Plant final module install event, top trending story on Facebook for the day.

> Broken Hill Solar Plant

> 11 November 2015

●○○○○ Telstra 3G 🔆 🔺 🗍 67% 💷 🕨 🗲 5:08 PM **Q** Search Cancel **Broken Hill, New South Wales** ~~ Ceremony Held for Newly Completed Solar Farm Merrylands, New South Wales  $\sim$ Police Receive Letter Threatening 'Thousands Will Die,' Report Says The Walking Dead ~~ Season 6 Premiere of AMC Series Draws Fewer Viewers Than Fall 2014 Premiere New South Wales ~~ Police Increase Presence at Penrith Plaza After 2nd Threat Made on 4chan **Emilia Clarke** ~~ Esquire Names 28-Year-Old Actress Sexiest Woman Alive 2015 Man Booker Prize ~~ Marlon James Named as Winner of Literary Award for 'A Brief History of Seven Killings' 

Messenger Notifications

News Feed

Requests

8

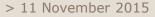
More

#### **Broken Hill Solar Plant**

> Full generation (53 MW) was achieved on Thursday 15 October 2015.



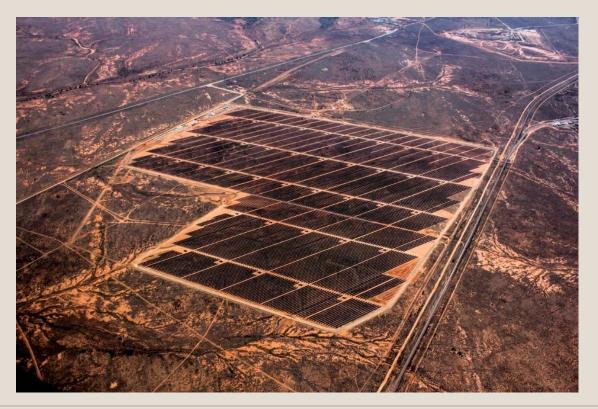
> Broken Hill Solar Plant





**Broken Hill Solar Plant** 

> Full power generation (53 MW) was achieved on Wednesday, 14 October 2015.

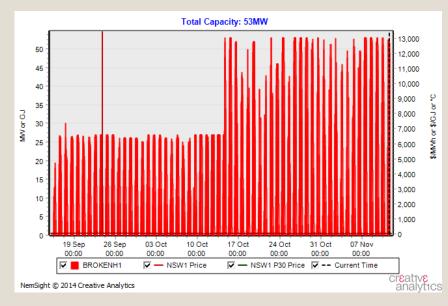


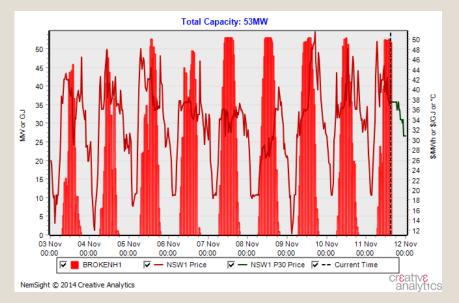


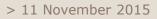
> Broken Hill Solar Plant

#### **Broken Hill Solar Plant**

- > Generation @ the point of connection (commenced Tuesday, 15 September 2015)
- > Cumulative generation at 23:30hrs on Friday, 6 Nov 2015 was 14,053.84\*\* MWh
  - \*\* enough energy to supply approximately 2,000 average NSW homes (for the full year)





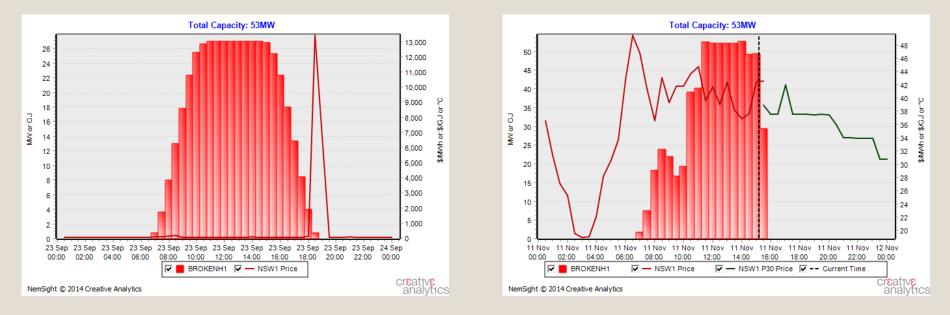




**Broken Hill Solar Plant** 

> Generation on Wednesday, 23 September 2015 – price spike in the PM peak.

- » AEMO Market Price Cap (MPC) is currently \$13 800/MWh (as at 1 July 2015)
- Generation from today, 11 November 2015 with actual pricing and forecast pricing based on expected generation.



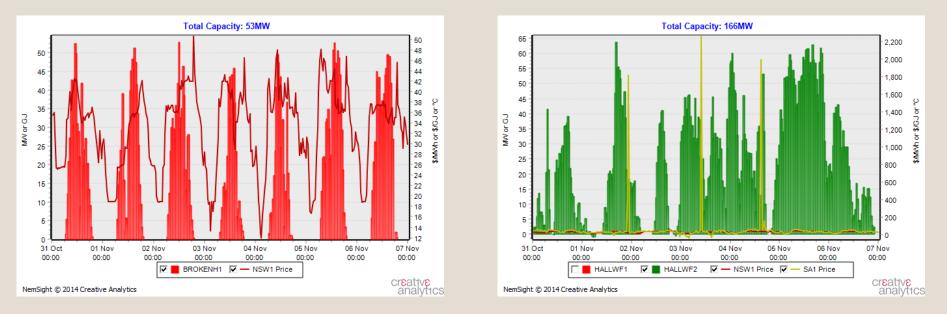
> Broken Hill Solar Plant



**Broken Hill Solar Plant** 

> Generation from the Broken Hill Solar Plant (~53 MW) - 31 Oct - 6 Nov 2015.

- » Weekly generation = 2,116.93 MWh (NSW pricing)
- > Generation from the Hallett Hill Wind Farm (~71.4 MW) 31 Oct 6 Nov 2015.
  - » Weekly generation = 3,848.34 MWh (SA pricing) NSW shown for comparison



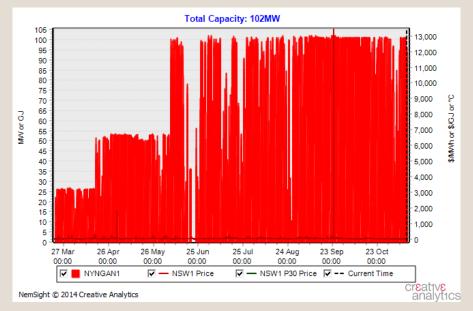
> Broken Hill Solar Plant



#### Nyngan Solar Plant

- > Generation @ the point of connection (commenced Saturday, 21 March 2015)
- > Cumulative generation at 23:30hrs on Friday, 6 Nov 2015 was 107,299.43\*\* MWh
  - \*\* Gaps in June due to AEMO/EE SCADA Nyngan was generation factored in cumulative total above





> Broken Hill Solar Plant



# 4. Project Planning

**Broken Hill Landscape Plan** 

- > Condition C3(c) of the project approval captures the requirement to develop proposed landscaping measures for discussion with the interested community to consider landscaping objectives and standards based on visual impacts and local environmental values (in particular the Pinnacles)
- > The Environmental Assessment for the Broken Hill Solar Plant (Oct 2012) included viewpoint 4 as having a "high exposure'.

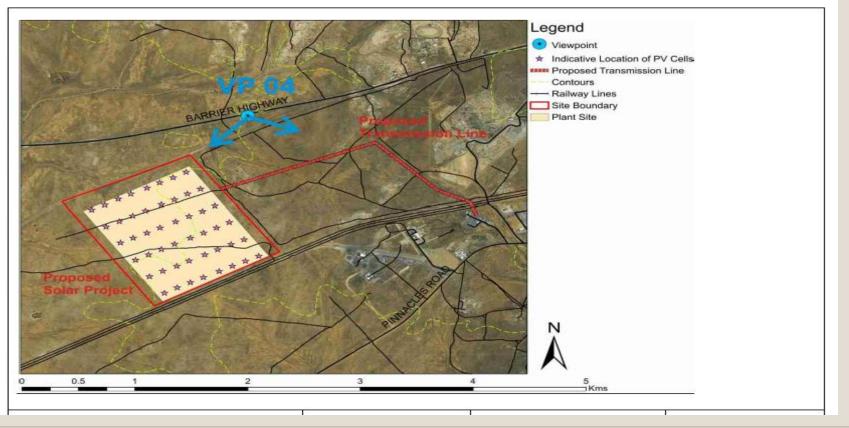


> Broken Hill Solar Plant

# 4. Project planning

#### **Broken Hill Landscape Plan**

#### Viewpoint 4 – Barrier Highway #4



> Broken Hill Solar Plant



# 4. Project Planning

#### **Broken Hill Landscape Plan**

> Viewpoint 4 looking south west (before and after)



Energy in since 1837

> Broken Hill Solar Plant

#### Project spending Adam Mackett (AGL)



## 4. Project spending

 Broken Hill Solar Plant construction generated direct spending for Broken Hill area - \$14.8 million



# Project PlanningHelena Orel (AGL)

#### • Adam Mackett (AGL)



#### 5. Community events

- **Community site tour** proposed morning of Saturday 28 November 2015 >
- Details will be emailed out to the group >
- **Solar Plant Community Open Day** family day for the whole community >
- Planned for late February / early March (date to be confirmed) >

#### **Broken Hill Solar Plant group visits**

- Southern Cross Care residents visited the site this week >
- Shadow ministers Broken Hill Councillors, Penny Sharpe and Michael Veitch > on Friday

Engaging with residents, businesses and interested organisations is at the heart of what we do.



#### > AGL Broken Hill Solar Plant

#### 5. AGL Energy deals still ongoing

AGL energy deals for Broken Hill businesses and residents

- > AGL Energy retail team has prepared energy deals specific for the Broken Hill community:
- Businesses 24% of electricity and solar, available now, \$100 off first bill when signing up business and residential property together
- > Residential starting from 15 September



> AGL Broken Hill Solar Plant



#### Construction Community Fund • Helena Orel (AGL)



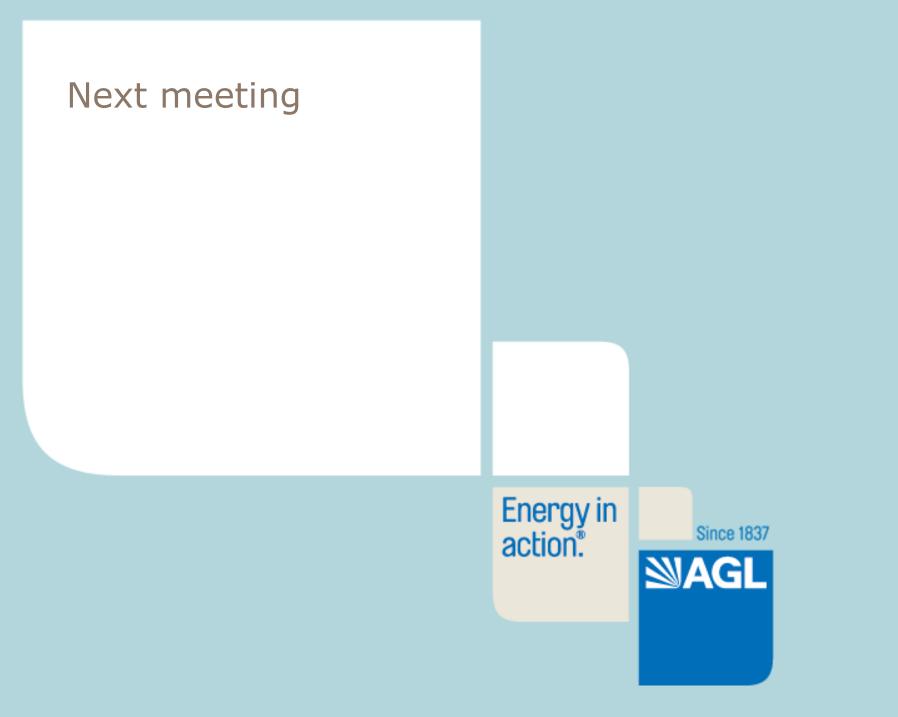
#### 6. Construction Community Fund

- > 17 applications received
- > Assessment of the applications will be done this week with the review panel group
- All applicants notified shortly afterwards of the outcome of their application

Energy in

action.

> AGL Broken Hill Solar Plant



# 7. Next meeting

- > Any questions?
- > Future community meetings

> AGL Broken Hill Solar Plant

